

Interim Development Guidance for Windows NT Platforms

15 December 1998

**Mr. Charles D. Morris
Center for Air Force C² Systems
email: cmorris@mitre.org
(781) 271-2443**

Interim Development Guidance for Windows NT Platforms

- **Interim Guidance Document signed: July 1998**
- **is provided to prepare Programs, Developers and Users to employ the DII COE on Windows NT-based platforms.**
- **applies to all software components being built or integrated on top of the DII COE Windows NT platform**
- **supplements the following documents:**
 - *Integration & Runtime Specification (I&RTS)*, Version 3.0, July 1997
 - *How To Segment Guide*, Version 4.0, 30 December 1996
- **Guidance is now fully incorporated into *Integration & Runtime Specification (I&RTS)*, Version 3.1, November 1998**

Interim Development Guidance for Windows NT Platforms

The Twelve Fold Way:

- (1) Microsoft Windows NT, in **all of it's commercially licensed forms**, are DII COE compliant operating systems.
- (2) For the DII COE v3.x, developers should create **full or abbreviated segments** with appropriate **Segment Descriptor Files** (SDF) in accordance with the DII COE I&RTS and How to Segment Guide. The SDFs will designate the desired registry entries for NT segments. SDFs will be used by the DII COE COE Installer to set the correct registry settings for the segment. **Run-time operation of the segment will use Win32 APIs to interact with the registry information.**

Interim Development Guidance for Windows NT Platforms

The Twelve Fold Way:

- (3) For the DII COE v 4.0 and beyond, the DII COE will transition to a commercial-based kernel. The DII COE Segment Installer will transition to the native NT Add/Remove Programs applet.
- (4) The Microsoft Designed for Windows NT and Windows 95 Logo Program Specifications are required for developing DII COE compliant NT segments. In requiring the Logo Program Specifications, it should be noted that any extensions unique to Microsoft should be avoided when possible, and when not possible, must be clearly articulated (with supporting rationale) to the DII COE Engineering Office.

Interim Development Guidance for Windows NT Platforms

The Twelve Fold Way:

- (5) Programs are required to use the Microsoft Designed for Windows NT and Windows 95 Logo Handbook for Software Application v 3.0b, *Microsoft Platform Software Developers Kit (SDK)*, new Win32 SDK, and Windows Interface Guidelines for Software Design as development guidance for the NT segments.
- (6) Programs should obtain a (free) copy of the Logo Analyzer (analyze.exe) software from VeriTest Inc. and use it to help verify compliance with the Logo Program. The results of these tests should be submitted to the appropriate DII COE verification lab for DII COE compliance evaluation.

Interim Development Guidance for Windows NT Platforms

The Twelve Fold Way:

- (7) The use of NT Registry database is unrestricted provided that its use is consistent with the definitions of "well behaved" Win32 applications. It is further understood that the implementation of environment variables defined in the DII COE I&RTS are for backward compatibility with legacy code and should be implemented as registry entries.
- (8) The directory structure for NT segments will be self-contained and will be location insensitive. Segments will use the Win32 to return handles to directory locations rather than relying upon a fixed, hard coded structure.

Interim Development Guidance for Windows NT Platforms

The Twelve Fold Way:

- (9) Naming conventions for GOTS segments will continue to follow the DII COE I&RTS guidance established with a segment's registration.
- (10) The segment directory structure will be implemented IAW the Microsoft Designed for Windows NT and 95 Logo Program. The primary partition should be reserved for the NT OS. Applications and Data should be separated from the primary partition.

Interim Development Guidance for Windows NT Platforms

The Twelve Fold Way:

- (11) Programs are required to select hardware platforms that are contained on the Microsoft Hardware Compatibility List. Programs that do not follow this requirement should not expect to receive help from the DII COE Engineering Office concerning hardware compatibility problems.
- (12) The use of *DII COE Secure Windows NT Installation and Configuration Guide* is required for DII COE NT platforms operating in a classified environment and strongly recommended for platforms operating in the unclassified environment. This document details guidance for establishing a secure Windows NT environment for multiple levels of classification.

Title Here

Subtitle Here

- *questions* -

Mr. Charles D. Morris

Center for Air Force C² Systems

email: cmorris@mitre.org

(781) 271-2443